

**JOINT MEETING OF THE KENTUCKY FARM BUREAU WATER MANAGEMENT
WORKING GROUP AND KENTUCKY WATER RESOURCES BOARD**

**AGENDA
APRIL 26, 2017
EDEN SHALE FARM
OWENTON**

Times are
Approximate

10:00 a.m. EST	Call to Order and Announcements: Mr. Steve Coleman, Chair
10:05 a.m.	Introductions
10:10 a.m.	Consideration of Minutes
10:15 a.m.	Eden Shale Farm Tour and BMP Overview
Noon	Lunch
1:00 p.m.	Source Water Protection: Mr. Rob Blair, KDOW Watershed Management Branch
1:30 p.m.	Kentucky Water Resources Board - Discussion on Content of Commonwealth Strategic Water Plan and Project Rankings: Mr. Peter Goodman, KDOW
2:00 p.m.	Review of WMWG General Recommendations and BMP Guide: Mr. Steve Coleman
2:30 p.m.	General Discussion
3:00 p.m.	Adjourn

**Water Resources Board
Draft Meeting Minutes
February 2, 2017**

Board Members in Attendance: Earl Bush (County Judge Executives); Brent Burchett (Proxy, KDA); Steve Coleman (KY Farm Bureau); Lloyd Cress, Jr. (KY League of Cities); Dr. Nancy Cox (UK); John Dix (KRWA); Kate Shanks (Proxy, KY Chamber of Commerce); Charles Snavely (EEC Secretary); Shane Wells (Proxy, KACD);

Board Members Absent: Jared Carpenter (LRC); Kevin Jeffries (Soil and Water Conservation Districts); Kevin Rogers (KY Chamber of Commerce); Ryan Quarles (Commissioner Dept. of Agriculture);

Others in Attendance: Paulette Akers (Director DCA); Adam Andrews (KYCGA); Amy Babey (USACE); Biff Baker (GOAP); Angela Billings (DPH-EMB); Steve Blanford (NRCS); Chloe Brantley (DOW); Brandon Brummet (USACE); Lane Boldman (KY Conservation Committee); Joe Cain (KYFB); Bill Caldwell (DOW); David Chinn (Monty's Plant Food Co.); Pete Cinotto (USGS); Allison Crawford (KYSEC); Lee Anne Daveine (USACE); Nicole Erwin (OVR); Peter Goodmann (Director DOW); Mike Griffin (USACE); Amanda Gumber (UK-CES); Richard Harrison (ORSANCO); Steve Higgins (UKCAFE); Wayne Hunt (Hunt Farms); Carey Johnson (DOW); Samantha Kaiser (DOW); Aaron Keatley (Commissioner DEP); Jim Kipp (KWRR); Allen Kyle (Kyle Farms); Gary Larimore (KRWA); David London (USACE); Hailey McCoy (EEC); Kim Richardson (DOC); Bijaya Shrestha (KWA); Joscoh Sisk (Sisk Farms); Larry Thomas (Farmer); Michael West (EEC-OGC); Karen Woodrich (USDA-NRCS);

The meeting began at 1:05 p.m.

Call Meeting to Order and Roll Call of Board Members

Secretary Snavely called the meeting to order. Peter Goodmann led the roll call of Board members. The Board will need to decide on a member to take the place of Senator McKee.

Introduction of Guests

Secretary Snavely introduced Colonel Chris Beck from the US Army Corps of Engineers (USACE). He is the Commander of the Louisville District. Colonel Beck introduced his team from the Louisville District.

Guests introduced themselves.

Minutes of November, 2016

The meeting minutes from November were approved by consensus.

Water Resources Discussion with Colonel Chris Beck, USACE

Colonel Beck gave a presentation about the USACE authorities. He discussed the civil works watershed-based boundary lines which cover five states and are centered in Kentucky. The Louisville District regulates Indiana, Illinois, and Kentucky. The USACE strives to provide consistency in all areas. Budgets vary for different projects and programs. USACE provide funding for individual projects in navigation, flood and storm risk management, aquatic ecosystem restoration, and watershed planning, as well as,

programs in emergency management and regulatory programs. A smaller portion of the budget funds hydropower, recreation, and water supply. Colonel Beck stressed to the Board that though a policy may be authorized does not mean that funds have been appropriated to implement it. The 2016 Water Infrastructure Improvements for the Nation (WWIN) Act is the newest legislation which incorporated the Water Resources Development Act (WRDA). Several authorities were mentioned and the USACE asked the public to discuss how these authorities can benefit their projects. The Kentucky Silver Jackets is a group of organizations that meet every six weeks to share and leverage information and resources to improve flood risk management across the Commonwealth.

Lee Anne Devine gave a presentation on regulatory updates to the Board. She encourages the public to ask questions and reach out to the USACE. The USACE goal is to work with applicants to get approval and applicants are encouraged to have a pre-project meeting to discuss future projects and applications with the USACE. Most applications are revised before approval. Options with lesser environmental impact receive approval. The key for the applicant is having an open dialogue with USACE. If an approved option cannot be completed, the applicant can discuss other options with the USACE. The main two statutes that are regulated are Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act.

The Board asked Ms. Devine to further explain what qualifies as a permit exemption and how land owners should be advised on the application process. Ms. Devine reiterated that the USACE encourages anyone with questions to call before beginning a project for which a permit could be required, which is preferable to having the USACE perform a site visit after the project is completed. A written exemption request can be submitted to the USACE and could be issued within 60 days of receipt. If the exemption request is denied it could take up to four months to develop an application and receive an approved permit.

The USACE proposed rule for use of USACE reservoir projects for domestic, municipal and industrial water supplies is currently in the Federal Register and is open for comments until February 14, 2017.

Colonel Beck discussed the Ohio River Basin Comprehensive (ORBC) Plan initiative which is a collaboration of various agencies and stakeholders across 14 states to provide a strategic plan for prioritizing investments in order to efficiently and effectively address water resource related issues using a watershed approach. The Great Lakes Restoration Initiative has received consistent funding while Ohio River Division funds have decreased. The ORBC initiative could help with funding in the Ohio River Basin. The Ohio River Basin Alliance (ORBA) is leading the ORBC initiative and needs to maintain the momentum.

The Board would like a subgroup to continue discussions with Colonel Beck and the USACE. Colonel Beck discussed the challenges with creating a flow chart for possible exemptions and projects that could require permits because each individual project is unique, and cautioned that such a chart could be misleading.

Final Projects Profiles Report

Bill Caldwell (DOW) discussed the final project profile ranking results. The State Water Plan ranked number one. He reminded the Board of the two working committees (technical data committee and roadmap), members of the committees, and the areas of focus.

Motion: (John Dix) To recommend that the Cabinet pursue funding for projects that further the goals of the Water Resources Board to:

1. Develop technical data and studies that are necessary for the development of a State Water Plan, or
2. Implement additional surface, groundwater or soil moisture monitoring where it is determined to be necessary to quantify and manage water resources for planning purposes including drought monitoring and response; and
3. That the Cabinet will notify the Board as to when the Cabinet pursues funding opportunities and discuss the proposed project with the Water Resources Board at the next Board meeting.

Second: (Steve Coleman)

The Board further discussed the motion until all members understood the motion.

Vote: Unanimous

The two working committees will meet before the next Board meeting.

Open Discussion for Board Members

Mr. Coleman reminded the Board of the Kentucky Farm Bureau Water Management Work Group recommendations.

Public Comment Period

No public comments were made.

Next Meeting

Mr. Goodmann recommended that a future meeting be at Eden Shale. The Kentucky Farm Bureau Water Management Work Group meeting at Eden Shale is April 26, 2017. The Board will communicate through email to confirm meeting.

The meeting adjourned at 3:22 p.m.

Water Resources Board Meeting
 Eden Shale Farm
 Owenton, Kentucky 40359
 April 26, 2017

BOARD MEMBER SIGN-IN SHEET

Name	Agency/Organization	Email Address	Phone number
Kat Henderson	KFB Board	mjhenderson@kfbk.com	270-945-1711
Steve Coleman	KY Water Resources Board		
Tom SABARD	EEC/DWR	tom@sabard.com	502-782-6592
JOHN DIX	KRWB	JOHN@KRWB.ORG	
BOB GRAY	Farmer	crank	
Kevin Rogers	KY Chamber	kevin.rogers@kymchamber.com	859-268-6324
Kevin Jefferson	KACD	Kevin.jeff@ballsonth.net	502-553-2938
Steve Workman	UK Ag	steve.w@ukm.org.edu	
Kari Johnson	KY		

Water Resources Board Meeting

Eden Shale Farm

Owenton, Kentucky 40359

April 26, 2017

PUBLIC SIGN-IN SHEET

Name	Agency/Organization	Email Address	Phone number
Billy Matthews	Senator Rand Paul	Billy-Matthews@Paul.Senate.Gov	854-322-3444
Kyle Kelly	Agr. Business Association	kkelly@kyretail.com	502-750-3266
Brad Burke	Farm Credit Mid America	Brad.Burke@E-FarmCredit.com	606-782-1367
Bryan Ellis	Speaker Hoover	bryanellis@lrc.ky.gov	270-766-2342
Jim Kipp	KLWANI	KIPPA@wvy.com	859-257-1832
Corey Elder	Speaker Hoover	Corey.Elder@LRC.ky.gov	270 804-5718
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Ben Conner	KDA	ben.conner@ky.gov	502-229-1714
Kim Richardson	DOC	kimberly.richardson@ky.gov	502-782-6751
Lawell Atchley	LRC	lawell.atchley@lrc.ky.gov	502-524-8100
Brent Burchett	KDA	brent.burchett@ky.gov	
Steve Workman	UKA	Steve.Workman@ky.edu	
David Chinn	Monty's Plant Food		
Sarah Gaddis	Don	Sarah.gaddis@ky.gov	502 524-3410
Kari Johnson	"	Kari.Johnson@ky.gov	

	"Good Management Practice"	Type 2	Type 3	Practice	Definition
Type 1					
Crops	GMP 1			Conservation Cover (327)	Establishing and maintaining permanent vegetative cover.
Crops	GMP 2			Conservation Crop Rotation (328)	Growing crops in a planned sequence on the same field.
					Narrow strips of permanent, herbaceous vegetative cover established around the hill slope, and alternated down the slope with wider cropped strips that are farmed on the contour.
Crops	GMP 3			Contour Buffer Strips (332)	
					Using ridges and furrows formed by tillage, planting and other farming operations to change the direction of runoff from directly downslope to around the hillslope.
Crops	GMP 4			Contour Farming (330)	Crops including grasses, legumes, and forbs for seasonal cover and other conservation purposes.
Crops	GMP 5			Cover Crop (340)	
Crops	GMP 6	Livestock		Filter Strip (393)	A strip or area of herbaceous vegetation that removes contaminants from overland flow.
		Streams and Other Waters			The process of managing the drainage volume and water table elevation by regulating the flow from a surface or subsurface agricultural drainage system.
Crops	GMP 7			Drainage Water Management (554)	Reshaping the surface of land to be irrigated, to planned lines and grades.
Crops	GMP 8	Farmstead		Irrigation Land Leveling (464)	A pipeline and appurtenances installed to convey water for storage or application, as part of an irrigation water system.
Crops	GMP 9			Irrigation Pipeline (430)	An irrigation water storage structure made by constructing a dam, embankment, pit, or tank.
Crops	GMP 10			Irrigation Reservoir (436)	An irrigation system for frequent application of small quantities of water on or below the soil surface: as drops, tiny streams, or miniature spray through emitters or applicators placed along a water delivery line.
Crops	GMP 11			Irrigation System, Microirrigation (441)	
					A system in which all necessary earthwork, multioutlet pipelines, and water-control structures are installed for distribution of water by surface means, such as furrows, borders, and contour levees, or by subsurface means through water table control.
Crops	GMP 12			Irrigation System, Surface and Subsurface (443)	The process of determining and controlling the volume, frequency, and application rate of irrigation water.
Crops	GMP 13			Irrigation Water Management (449)	Applying plant residues or other suitable materials produced off site, to the land surface.
Crops	GMP 14			Mulching (484)	

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Type 1					
Crops	GMP 15	Livestock		Nutrient Management (590)	Managing the amount (rate), source, placement (method of application), and timing of plant nutrients and soil amendments.
Crops	GMP 16			Stripcropping (585)	Growing planned rotations of row crops, forages, small grains, or fallow in a systematic arrangement of equal width strips across a field.
Crops	GMP 17	Streams and Other Waters		Structure for Water Control (587)	A structure in a water management system that conveys water, controls the direction or rate of flow, maintains a desired water surface elevation or measures water.
Crops	GMP 18	Streams and Other Waters		Tailwater Recovery	
Crops	GMP 19			Terrace (600)	An earth embankment, or a combination ridge and channel, constructed across the field slope.
Farmstead	GMP 1	Livestock		Access Control (472)	The temporary or permanent exclusion of animals, people, vehicles, and/or equipment from an area.
Farmstead	GMP 2	Livestock		Access Road (560)	An access road is an established route for equipment and vehicles.
Farmstead	GMP 3	Livestock		Animal Trails and Walkways (575)	Established lanes or travel ways that facilitate animal movement.
					A structure or device to contain and facilitate an aerobic microbial ecosystem for the decomposition of manure and/or other organic material into a final product sufficiently stable for storage, on farm use and application to land as a soil amendment.
Farmstead	GMP 4	Livestock	Crops	Composting Facility (317)	
Farmstead	GMP 5			Critical Area Planting (342)	Establishing permanent vegetation on sites that have, or are expected to have, high erosion rates, and on sites that have physical, chemical, or biological conditions that prevent the establishment of vegetation with normal seeding/planting methods.
Farmstead	GMP 6			Deep Tillage (324)	performing tillage operations below the normal tillage depth to modify the physical or chemical properties of a soil. It includes tillage operations commonly referred to as deep plowing, subsoiling, ripping, or row-till, performed from time to time below the normal tillage depth.
Farmstead	GMP 7	Livestock		Dry Hydrant (432)	A non-pressurized permanent pipe assembly system installed into water source that permits the withdrawal of water by suction.
Farmstead	GMP 8			Farmstead Energy Improvement (374)	Development and implementation of improvements to reduce, or improve the energy efficiency of on-farm energy use

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Type 1					
Farmstead	GMP 9	Livestock		Heavy Use Area Protection (561)	The stabilization of areas frequently and intensively used by people, animals or vehicles by establishing vegetative cover, surfacing with suitable materials, and/or installing needed structures.
Farmstead	GMP 10			Lighting System Improvement (670)	Complete replacement or retrofitting of one or more components of an existing agricultural lighting system.
Farmstead	GMP 11			Roof Runoff Structure (558)	A structure that will collect, control and convey precipitation runoff from a roof.
					A rigid, semirigid, or flexible manufactured membrane, composite material, or roof structure placed over a waste management facility, agricultural handling facility, or an on-farm secondary containment facility.
Farmstead	GMP 12			Roofs and Covers (367)	
					A trail is a constructed path with a vegetated or earthen surface. A walkway is a constructed path with an artificial surface. A trail/walkway is used to facilitate the movement of animals, people, or off-road vehicles.
Farmstead	GMP 13	Livestock		Trails and Walkways (575)	
Farmstead	GMP 14	Silviculture		Tree/Shrub Establishment (612)	Establishing woody plants by planting seedlings or cuttings, by direct seeding, and/or through natural regeneration.
Farmstead	GMP 15	Livestock		Water Harvesting Catchment (636)	A method to detain stormwater for beneficial reuse with basin structures or tanks.
Farmstead	GMP 16	Crops		Water Well (642)	A hole drilled, dug, driven, bored, jetted or otherwise constructed into an aquifer for water supply.
		Streams and Other Waters			A water impoundment constructed and managed for farming of freshwater and saltwater organisms including fish, mollusks, crustaceans and aquatic plants.
Livestock	GMP 1			Aquaculture Pond (397)	
Livestock	GMP 2			Genetic Improvements	Lowering the weight of animals to reduce compaction of pastures
					A permanent or portable structure with less than four walls and/or a roof to provide for improved utilization of pastureland and rangeland and to shelter livestock from negative environmental factors. This structure is not to be construed to be a building.
Livestock	GMP 3			Livestock Shelter Structure (576)	
Livestock	GMP 4	Crops	Farmstead	Vegetated Treatment Area (635)	An area of permanent vegetation used for agricultural wastewater treatment.

Type 1		Type 2	Type 3	Practice	Definition
"Good Management Practice"					
Streams and Other Waters	GMP 1			Constructed Wetland (656)	An artificial wetland ecosystem with hydrophytic vegetation for biological treatment of water.
Streams and Other Waters	GMP 2			Dike (356)	A dike is an embankment constructed of earth or other suitable material to protect land against overflow or to regulate water.
Streams and Other Waters	GMP 3			Diversion (362)	A channel generally constructed across the slope with a supporting ridge on the lower side.
Streams and Other Waters	GMP 4			Grade Stabilization Structure (410)	A structure used to control the grade and head cutting in natural or artificial channels.
Streams and Other Waters	GMP 5	Crops		Grassed Waterway (412)	A shaped or graded channel that is established with suitable vegetation to convey surface water at a non-erosive velocity using a broad and shallow cross section to a stable outlet.
Streams and Other Waters	GMP 6			Pond (378)	A pond is a water impoundment made by constructing an embankment, by excavating a dugout, or by a combination of both.
Streams and Other Waters	GMP 7	Silviculture		Riparian Forest Buffer (391)	An area predominantly trees and/or shrubs located adjacent to and up-gradient from watercourses or water bodies.